

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name: Three J's Inc.
101 Palmer Drive
Dayton, Nevada 89403

Permit Number: NEV2001501

Description of Discharge

Location: Dayton Valley Golf Course and the Legado Golf Course and Planned Unit Development
common areas and streetscapes

101 Palmer Drive
Dayton, Lyon County, Nevada 89403

Latitude: 39E14' 41"N.; Longitude: 119E33' 57"W
Section 19, T. 16N, R. 22E. MDB&M

Characteristics: The Lyon County Utilities, Regional Rolling A Water Reclamation Facility (RAWRF) and or the Lyon County Utilities, South Dayton Valley Wastewater Treatment Plant (SDVWWTP) supplies Class B-NAC 445A.276-treated, denitrified, disinfected effluent for reuse irrigation at the Dayton Valley 18-hole championship golf course, the new Legado 9-hole golf course, and the Legado Planned Unit Development common areas, park and streetscapes. The treated effluent is discharged into Pond 1, and in the future, pond 14 via gravity and force main from either or both of the two Lyon County treatment facilities, and redistributed in a series of 12 other lined ponds. Irrigation pond 3 receives groundwater and discharges via gravity into effluent pumping pond 4 to provide a blend to supplement the irrigation reuse water supply. In the future pond 3 may also be used to store effluent. The water is distributed to the other lakes on the Dayton Valley Golf Course by gravity and to the irrigation system via the pump station at pond 4. The Legado course will be operated as a separate system, and will be supplied with effluent discharged into pond 14 from the effluent supply line. Reuse irrigation water will be pumped to the Legado section of the development via the pump station to be constructed at pond 14. Irrigation is via spray irrigation of turf grass and drip on trees and other plant materials on the 310 acre property that is irrigated; a weather station controls the irrigation system. All reuse activities are conducted in accordance with the approved Effluent Management Plan and the terms and conditions of the permit.

Flow: The applicant has applied for 2.70 MGD 30-Day Average Flow and 4.10 MGD Daily Maximum Flow for seasonal discharge of reuse water on the collective properties under effluent irrigation. The reuse water will be combined with pumped groundwater in Pond 3 to meet actual irrigation demands. The permit requires the reuse water quantity to be monitored and reported. The maximum monthly flow is based upon the highest usage month determined from the consumptive use balance plus a 10% allowance, and in

FACT SHEET
#NEV2001501
Page 2

accordance with the approved Effluent Management Plan. The annual application volume is limited to 1415 acre feet per year. Irrigation is seasonal, from March through November.

Fecal Coliform:

Fecal Coliform:* 2.2 Cfu/Mpn/100 ml 30 day average
 23 Cfu/Mpn/100 ml daily max.

** Sample results are obtained from RAWRF (#NEV2000500) and SDVWWTP (#NEV10017) as applicable.*

General: *The applicant irrigates with groundwater blended with treated, denitrified, and disinfected effluent (reuse water) supplied by the RAWRF and or the SDVWWTP. The facilities provide reclaimed water that meets Category B quality per NAC 445A.276, and is denitrified below 10 mg/l TN.*

Receiving Water Characteristics: *Groundwater in the area is potable. Depth to groundwater in the area averages 75 feet. The fourteen effluent storage lakes are lined, and are used for winter effluent storage. Effluent is denitrified, and no adverse effects are expected to occur as a result of this effluent reuse.*

Procedures for Public Comment:

*The Notice of the Division's intent to issue a permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Nevada Appeal and Dayton Courier** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the publication of the public notice. All comments must be received by November 23, 2007. The comment period can be extended at the discretion of the Administrator.*

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator, or any interested agency, person, or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination

The Division has made the tentative determination to reissue the proposed permit for a period of five (5) years.

Schedule of Compliance:

Cross-Connection control documentation shall be submitted prior to continued effluent reuse per Part I.B.10. of the permit..

There are no special conditions.

Rationale for Permit Requirements

Required parameters are monitored to ensure effluent reuse requirements are maintained per NAC 445A.275, 445A.276 and groundwaters of the State are protected.

*Prepared by: Icyl C. Mulligan
August 2007*